

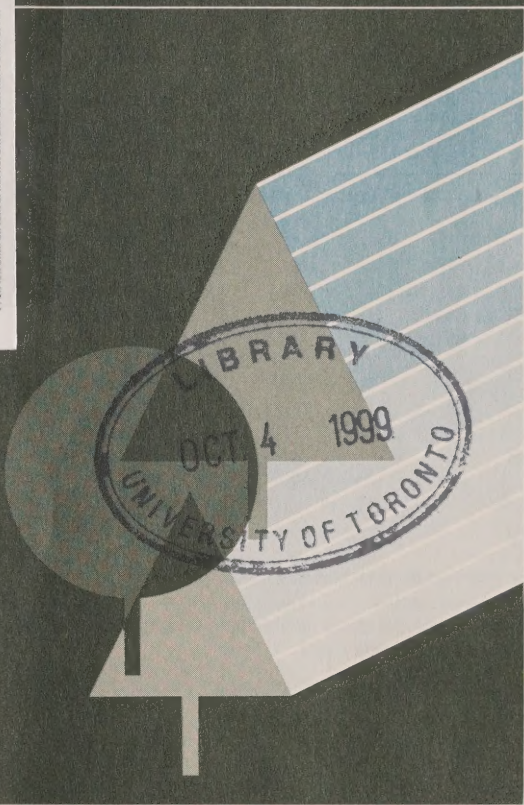
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Canada's Forests 1991

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Forestry
Canada

Forêts
Canada

Canada

Area Classification — 1986

	000 000 ha
Forest land	
Inventoried	397.92
Noninventoried	55.40
Total forest land	453.32
Nonforest land	468.22
Total land	921.54
Water	75.52
Total	997.06

Ownership, Inventoried Forest Land — 000 000 ha

	Crown		Indus- trial	Non- industrial
	Provincial	Federal		
Newfoundland	21.79	0.10	0.50	0.08
Prince Edward Island	0.02	--	—	0.27
Nova Scotia	1.09	0.11	0.90	1.93
New Brunswick	3.09	0.16	0.59	1.00
Quebec	75.33	0.23	0.43	3.80
Ontario	39.72	0.32	0.89	5.63
Manitoba	23.45	0.39	—	1.17
Saskatchewan	22.78	0.50	—	0.24
Alberta	32.99	3.53	—	—
British Columbia	57.70	0.57	—	2.02
Yukon Territory	—	27.37	—	—
Northwest Territories	—	61.44	—	—
Total	277.92	94.72	3.31	16.14

	Munic- ipal	Unspec- ified private	Unclass- ified	Total
Newfoundland	—	0.01	--	22.48
Prince Edward Island	—	—	—	0.29
Nova Scotia	—	—	—	4.04
New Brunswick	—	1.50	—	6.34
Quebec	—	2.70	—	82.49
Ontario	—	—	0.05	46.60
Manitoba	0.12	—	—	25.12
Saskatchewan	—	0.19	—	23.71
Alberta	0.01	1.12	0.10	37.75
British Columbia	—	0.02	—	60.31
Yukon Territory	—	—	—	27.37
Northwest Territories	—	—	—	61.44
Total	0.13	5.53	0.15	397.92

Source: *Canada's Forest Inventory 1986*. Forestry Canada.

Note: The latest forest inventory data are not comparable with previous summaries as the more recent data incorporate changes in methodology, classification, and more complete coverage of inventory.

Wood Volume and Maturity Class^a — 1986

Province and territory	Softwoods	Hardwoods	Total
		000 000 m ³	
Newfoundland	487	38	525
Prince Edward Island	16	10	26
Nova Scotia	150	94	244
New Brunswick	362	209	571
Quebec	3 020	1 204	4 225
Ontario	2 205	1 325	3 529
Manitoba	444	236	680
Saskatchewan	536	370	905
Alberta	1 684	972	2 656
British Columbia	8 180	688	8 867
Yukon Territory	436	44	480
Northwest Territories	315	131	446
Total	17 834	5 320	23 154

Species Groups

Softwoods		Hardwoods	
	000 000 m ³		000 000 m ³
Spruce	7 146	Poplar-aspen	2 979
Pine	4 087	Birch	1 126
Fir	2 827	Maple	652
Hemlock	1 278	Unspecified	566
Cedar	885		
Douglas-fir	696		
Larch	105		
Unspecified	808		
Total	17 834	Total	5 320

Maturity Class

	000 000 m ³	000 000 ha
Regeneration	140	19.79
Immature	5 625	77.76
Mature	13 619	83.33
Overmature	2 117	13.14
Uneven-aged	34	0.37
Unclassified	1 618	22.04
Total	23 154	216.41

^aGross merchantable volume on stocked, productive, nonreserved forest land.

Source: *Canada's Forest Inventory 1986*. Forestry Canada.

Forest Losses

Fires

Province and territory	Number of fires		Area burned — 000 ha —	
	1989	1990	1989	1990
Newfoundland	192	197	68	47
Prince Edward Island	30	38	--	--
Nova Scotia	425	498	--	1
New Brunswick	392	377	--	6
Quebec	1 167 ^a	851 ^a	2 110 ^a	83 ^a
Ontario	2 430	1 614	404	184
Manitoba	1 226	570	3 568	16
Saskatchewan	1 020	897 ^a	471	187 ^a
Alberta	795	1 296	6	31
British Columbia	3 520	3 255	25	76
Yukon Territory	244	154	328	170
Northwest Territories	613	236	578	105
National Parks	131	128	1	25
Total	12 185	10 111	7 560	931

Insects – Area of Moderate to Severe Defoliation

	1988	1989 000 ha	1990
Spruce budworm	6 335	7 738	8 738
New Brunswick	500	396	237
Quebec	434	700	870
Ontario	5 225	6 240	6 780
Other	176	401	851
Jack pine budworm			
Ontario	737	248	30
Mountain pine beetle ^b			
British Columbia	63	53	41
Hemlock looper	13	9	3
Forest tent caterpillar	8 350	10 715	10 615
Quebec	582	372	92
Ontario	3 965	7 915	9 480
Saskatchewan	932	791	261
Alberta	2 766	1 190	609
Other	105	447	215

Volume Lost

Average 1982-86^p

000 000 m³

Insects	64.7
Diseases	44.9

^aIncludes intensive and limited protection zones.

^bArea of beetle - killed trees.

^pPreliminary data.

Source: Forestry Canada.

Forest Management

Expenditures — 1989

Activity

\$ 000 000

Silviculture	684
Forest protection	446
Resource access	355
Research	117
Other	599
Total	2 200

Province and territory

	Federal	Provin- cial	Indus- trial	Total
		\$ 000 000		
Newfoundland	15	25	9	49
Prince Edward Island	2	4	—	6
Nova Scotia	10	27	14	50
New Brunswick	15	43	28	86
Quebec	58	268	72	398
Ontario	30	300	32	362
Manitoba	—	70	6	76
Saskatchewan	1	52	4	57
Alberta	8	89	25	122
British Columbia	49	434	469	952
Yukon and Northwest Territories	—	14	—	14
Forestry Canada - NCR	29	—	—	29
Total	217	1 325	658	2 200

Silvicultural Accomplishments

Activity

1987

1988

1989

Site preparation — ha	489 691	441 507	487 663
Area planted — ha	391 149	419 312	430 344
Seedlings planted — 000	703 774	745 951	750 609
Direct seeding — ha	37 496	37 761	42 598
Stand tending — ha	298 709	299 210	359 566

Province

Area planted
ha

Seedlings planted
000

	1988	1989	1988	1989
Newfoundland	4 468	3 386	10 629	7 557
Prince Edward Island	972	773	2 205	1 750
Nova Scotia	11 655	9 762	31 006	24 575
New Brunswick	19 123	20 272	45 620	43 581
Quebec	99 880	103 140	234 911	235 057
Ontario	81 025	81 760	171 613	175 783
Manitoba	7 026	6 683	15 689	13 541
Saskatchewan	7 020	6 004	10 532	11 477
Alberta	18 658	24 254	25 034	26 865
British Columbia	169 485	174 310	198 712	210 423
Total	419 312	430 344	745 951	750 609

Forest Industries — Corporate Profits, Taxes, and Capital Expenditures

Corporate Profits (after tax) — Quarterly Rates — Seasonally Adjusted (net income for period)

	Year	First	Second	Third	Fourth	Annual
	\$ 000 000					
Wood industries	1987	154	154	-150	169	327
	1988	149	155	139	91	534
	1989	84	107	148	71	410
	1990	54	47	-11		
Paper and allied industries and forestry	1987	463	614	707	907	2 691
	1988	643	909	717	656	2 925
	1989	577	638	499	382	2 096
	1990	279	241	-10		

Corporate Taxation

	1986			1987		
	Fed- eral	Provin- cial	Total	Fed- eral	Provin- cial	Total
	\$ 000 000					
Forestry	17	11	28	22	14	36
Wood industries	72	48	120	127	80	207
Paper and allied industries	136	123	259	254	190	444
Total	225	182	407	402	284	686

Capital Expenditures

	Con- struction	Machinery and equipment	Total
	\$ 000 000		
1990 — Preliminary			
Forestry	125	132	257
Wood industries	104	511	615
Paper and allied industries	549	3 790	4 339
Total	778	4 433	5 211
1991 — Intentions			
Forestry	135	106	241
Wood industries	107	405	512
Paper and allied industries	421	3 389	3 810
Total	663	3 900	4 563

World Forestry Data

	Forest areas ^a — 000 000 ha —	Closed forest — 000 000 m ³ —	Growing stock — 000 000 m ³ —
North America	749.3	453.3	46 754
Canada	453.3 ^b	243.7	23 154
United States	296.0	209.6	23 600
Central America	72.6	72.2	5 500
Mexico	47.8	47.8	600
South America	915.0	667.0	91 500
Africa	743.7	235.9	25 000
Europe	158.9	137.0	12 000
USSR	928.6	791.6	85 900
Asia	468.2	361.8	38 000
Oceania	298.9	223.4	6 000
World	4 335.3	2 942.2	310 654

^aIncludes closed forest and other wooded land.

^bCanada's Forest Inventory 1986. Forestry Canada.

Sources: *Forest resources 1980*, Food and Agriculture Organization of the United Nations 1985. Cibula, E.J. *Trends in timber supply and trade, Information Review, 1980*, Department of the Environment, London.

Timber Trends and Prospects for North America, 1990. FAO.

Roundwood Production — Average 1985-89

	Industrial — 000 000 m ³ —	Fuelwood — 000 000 m ³ —
North America	568	121
Canada	169	7
United States	399	114
Central America	12	45
Mexico	7	14
South America	99	183
Africa	55	365
Europe	298	54
USSR	298	85
Asia	262	748
Oceania	30	9
World	1 622	1 610

Source: *Yearbook of Forest Statistics, 1989*. FAO.

Cette publication est aussi disponible en français sous le titre
Les forêts du Canada 1991.

Additional copies of this publication can be obtained from:

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Cat. No. Fo42-172/1992E

ISBN 0-662-19353-9

Exports of Selected Forest Products

Wood, Wood Products, and Paper	Volume		Value - \$ 000 000 -	
	1989	1990	1989	1990
Primary products				
Logs and bolts — 000 m ³	1 813	853	189	108
Pulpwood — 000 m ³	813	192	21	8
Wood chips — 000 t	1 891	1 569	165	140
Other			76	102
Total primary products			451	358
Lumber — 000 m³				
Softwoods	40 069	37 088	5 386	5 250
Hardwoods	413	387	130	121
Total lumber	40 482	37 475	5 516	5 371
Shingles and shakes — 000 m²	32 968	33 462	215	226
Veneer — 000 m³				
Softwoods	156	149	28	26
Hardwoods	133	126	116	132
Total veneer	289	275	144	159
Plywood — 000 m³				
Softwoods	325	306	105	97
Hardwoods	76	90	44	43
Total plywood	401	396	148	140
Other wood products			774	719
Wood pulp — 000 t				
Mechanical	312	301	142	140
Chemical	7 930	7 600	6 798	5 975
Total wood pulp	8 242	7 901	6 940	6 115
Paper and paperboard — 000 t				
Newsprint	8 482	8 743	5 866	5 898
Other paper and paperboard	2 822	3 277	2 355	2 736
Total paper and paperboard	11 304	12 020	8 221	8 634
Other paper products			389	446
Total wood, wood products, and paper			22 798	22 168
Exports of wood, wood products, and paper				
To: United States			14 738	15 083
United Kingdom			1 227	1 097
Japan			2 546	2 029
Other countries			4 287	3 959

Canadian Commodity Trade — 1990

Wood and Paper Commodities	Domestic exports	Re- exports ^a	Imports	Balance of trade
	\$ 000 000			
Primary wood products	357	6	242	+ 121
Wood fabricated materials	6 615	110	987	+ 5 738
Wood pulp and paper products	15 195	24	2 237	+ 12 982
Total wood and paper products	22 168	140	3 467	+ 18 841
All other nonforest commodities	97 139	6 910	129 291	-25 242
Total commodity trade	141 474	7 190	136 224	+ 12 440

Domestic Exports of Wood and Paper Products by Province of Origin

	Primary wood products	Wood fabricated materials	Wood pulp and paper products	Total ^b
	\$ 000 000			
Newfoundland	3.2	1.6	423.0	427.7
Prince Edward Island	0.4	0.8	0.2	1.4
Nova Scotia	14.0	47.2	537.3	598.5
New Brunswick	7.3	175.0	1 256.5	1 438.8
Quebec	31.1	789.6	4 333.1	5 153.8
Ontario	22.5	846.5	3 274.1	4 143.1
Manitoba	0.5	70.8	123.8	195.1
Saskatchewan	7.8	22.3	238.7	268.8
Alberta	10.1	259.3	388.5	657.9
British Columbia	260.3	4 399.1	4 620.0	9 279.3
Yukon Territory	c	0.1	c	0.3
Northwest Territories	—	2.8	—	3.0
Total	357.4	6 615.1	15 195.2	22 167.6

^aIncludes only goods previously included in import statistics that are exported in the same form as they were imported.

^bMay not add due to rounding.

^cLess than \$50 000.

Source: Statistics Canada.

Forest Industries

Employment ^a	Number of employees		Salaries and wages — \$ 000 000 —	
	1988	1989	1988	1989
Logging	47 144	49 185	1 623	1 759
Wood industries				
Sawmills and planing mills	61 694	58 884	1 989	1 997
Shingle mills	1 914	1 801	53	52
Veneer and plywood mills	9 305	9 236	283	292
Sash, door, and other millwork	37 781	40 076	870	967
Other wood industries	13 240	13 612	322	347
Total wood industries	123 934	123 609	3 517	3 655
Paper and allied industries				
Pulp and paper mills	81 058	80 595	3 332	3 491
Other paper industries	40 017	39 511	1 147	1 198
Total paper and allied industries	121 075	120 106	4 479	4 689
Total forest industries	292 153	292 900	9 619	10 103

Value of Products	Value added ^b — \$ 000 000 —		Value of shipments — \$ 000 000 —	
	1988	1989	1988	1989
Logging	3 378	3 657	8 062	8 697
Wood industries				
Sawmills and planing mills	3 536	3 466	9 139	9 237
Shingle mills	87	83	227	237
Veneer and plywood mills	452	479	1 051	1 068
Sash, door, and other millwork	1 602	1 767	3 376	3 655
Other wood industries	599	654	1 530	1 646
Total wood industries	6 277	6 449	15 322	15 843
Paper and allied industries				
Pulp and paper mills	10 182	9 550	19 850	19 812
Other paper industries	2 303	2 409	5 811	6 036
Total paper and allied industries	12 485	11 959	25 661	25 848
Total forest industries	22 140	22 065	49 045	50 388

^aBased on total activity (excludes working owners and partners).

^bBased on total activity and is the gross or sale value, less cost of material, fuel, purchased electricity, and process supplies consumed.

Source: Statistics Canada.

Canadian Output of Selected Forest Products

	1988	1989 000 m ³	1990
Lumber (production — all industries)			
Softwoods	59 376	57 903	53 696
Hardwoods	1 354	1 341	1 213
Total lumber	60 730	59 245	54 909
Plywood (shipments)	2 182	2 148	1 950
Wood-based panels (shipments)			
Particleboard	1 154	1 217	1 064
Waferboard	1 647	2 146	1 939
Hardboard	125	294	288
Wood pulp (production)		000 t	
Groundwood	10 420	10 507	10 531
Dissolving and special alpha	267	273	221
Sulphite — bleached	441	415	428
— unbleached	1 298	1 212	1 023
Sulphate — bleached and semibleached	9 483	9 500	8 800
— unbleached	1 463	1 356	1 360
Semichemical defibrated and exploded ^a	430	432	465
Screenings	16	13	8
Total wood pulp	23 818	23 708	22 836
Basic paper and paperboard (production)			
Newsprint	9 840	9 640	9 068
Printing and writing paper	3 053	3 232	3 599
Kraft paper	568	525	497
Tissue and special paper	488	486	495
Paperboard	2 702	2 700	2 806
Total paper and paperboard	16 651	16 583	16 465

^aIncludes pulp other than wood pulp.

Source: Statistics Canada, Canadian Pulp and Paper Association, and Forestry Canada.

Primary Forest Production

Product	1989		Average 1985-89	
	000 m ³	%	000 m ³	%
Logs and bolts ^a				
Softwoods	131 938	68.9	126 733	68.9
Hardwoods	6 284	3.3	5 804	3.2
Pulpwood				
Softwoods	39 007	20.4	37 627	20.5
Hardwoods	5 791	3.0	4 921	2.7
Fuelwood ^b				
Softwoods	1 413	0.7	1 609	0.9
Hardwoods	4 729	2.5	4 874	2.7
Other roundwood products	2 282	1.2	2 244	1.2
Total primary products	191 444	100.0	183 811	100.0

Province and territory	1989		Average 1985-89	
	000 m ³	%	000 m ³	%
Newfoundland	2 535	1.3	2 498	1.4
Prince Edward Island	460	0.2	463	0.3
Nova Scotia	4 232	2.2	4 181	2.3
New Brunswick	9 281	4.8	8 593	4.7
Quebec	39 878	20.8	38 458	20.9
Ontario	29 642	15.5	29 417	16.0
Manitoba	1 848	1.0	1 808	1.0
Saskatchewan	3 685	1.9	3 543	1.9
Alberta	12 293	6.4	10 829	5.9
British Columbia	87 414	45.7	83 837	45.6
Coast	29 940	15.6	30 165	16.4
Interior	57 474	30.0	53 672	29.2
Yukon and Northwest Territories	176	0.1	185	0.1
Total	191 444	100.0	183 811	100.0

^aIncludes logs for pulping.

^bIncludes wood for charcoal.

Source: Statistics Canada.

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This edition combines *Canada's Forests 1990*
and *Canada's Forests 1991*.